WindO/I-NV2

Welcome to WindO/I-NV2!

WindO/I-NV2 is IDEC's screen creation software for the HG1F, HG2F, HG2S, HG3F and HG4F operator interfaces (touch screen displays.) WindO/I-NV2 is used to create projects or programs that layout display screens for the O/Is. Using this window based program, any of IDEC's touch screens can display information from a PLC, process status, or can be used to input data with virtual switches or keypads to make changes to a process.

WindO/I-NV2 is easy and intuitive. Many of the processes are self-explanatory and guide you from step-to-step as you configure the O/I. The help menus are simple, straightforward, and are a good resource for getting additional information.
Creating colorful displays has never been easier. With Symbol Factory you have 5000 built in images for your disposal. You can also import almost any Bitmap or JPEG file into your project.

WindO/I-NV2 highlights:

- Built-in Serial and Network Protocols
- Pass-thru function
- Download, upload & view OI via Ethernet
- Debug function
- Over 5000 built-in bitmap library
- Supports Windows Fonts
- Supports Multiple Languages
- Supports Scripting
- Intuitive Drag & Drop Functionality
- Flexible Screen Display for Efficient Editing
- Workspace – easy to manage projects & screens

Notes - WindO/I-NV2

There are the following notes when you use WindO/I-NV2, please following the instruction.

Supported MICRO/I

WindO/I-NV2 supports the HG2G/3G/4G, HG1F/2F/2S/3F/4F.

Text and Fonts

1) In a character input, when there are number restrictions of characters, such as a "Registration Text" or a "Message Display", a carriage return is equivalent to two characters.
2) The recommendation font of WindO/I-NV2 is "Small font" of a Windows system.
3) The font, line and the resized Picture displayed on WindO/I-NV2 may differ from a display with the MICRO/I, please make sure in the MICRO/I.

Screen display/ Print

1) Depending on the hardware configuration of the personal computer currently used, a picture may be confused while in use. Then please turn off a hardware accelerator.
2) If garbled characters are shown in printing, please set "Printing Font" again.
3) When the project which the file size is big is printed with RTF file, a message regarding clipboard is sometimes opened. Please separate Print Range then print them to solve this problem.

Edit

1) WindO/I-NV2 does not have the limitation of number of editing screens which can be opened at the same time. The limitation depends on the RAM in PC.
2) When Open/Close Project command is repeated to the project, a message regarding insufficient memory is sometimes opened. Please exit WindO/I-NV2 once then re-launch it to solve this problem. This condition depends on the environment of PC such as the number of the running application software at the same time.
3) We do not guarantee to launch 2 WindO/I-NV2 at the same time though you can edit while referring the opening project on the other.
4) There are the following notes when you use NV2 Metafile.
   - When the NV2 Metafile consisted with outline which the line width is or bigger than 2 dot is set to Button/ Pilot Lamp/ Multi-State Lamp/ Picture Display, the outline is not updated even if the images such as OFF/ON are changed or the image is disappeared. To solve this note, set the outline which the line width is 1 to NV2 Metafile.
   - When Paint object is used in the NV2 Metafile, the image is sometimes changed after resizing Picture or part object which NV2 Meta file is used.
5) Export of the library screen is not supported in the case of the following O/I Type.
   - HG3G/HG4G, HG3G/4G(Multimedia), HG2G-5FT

Communication

1) When the cable remove or turn off MICRO/I while communicating with the MICRO/I, WindO/I-NV2 will not work.
2) The screen monitor can not monitor the value of the Host device set for write only. Use Custom Monitor or Batch Monitor if you want to monitor the device.
3) Do not write 16bit data or bit data to the 32bit device in Emerson ROC Protocol.
4) Do not send more than one command at the same time if Ethernet is selected as User Communicaiton Interface.

Touch Panel

When more than one button is pressed at the same time, due to the detection characteristics of an analogue type touch panel for HG2G/3G/4G, HG1F/EX4R, only the gravity center of the pressed area is sensed and the unit assumes that only one button is pressed. Thus, when more than one button is pressed simultaneously, the resulting operation is not guaranteed.

Multimedia Function

1) Movie files that can use Fast Forward and Rewind are as following restrictions.
   - If the playback time is 10 minutes or less, the file must have at least one or more I-frame every 2 seconds
   - If the playback time is 10 minutes or more, the file must have at least one or more I-frame every 5 seconds
2) A popup screen consisting of the video display will remain if the popup screen is moved while video is displaying images or while a movie file is playing.
3) If the SD memory card is not recognized then the movie files may not play immediately after starting running the MICRO/I. In such cases, perform playback after LSM21 (ON while accessing the memory card) is turned ON.

WindO/I-NV2 Ver.4.75

<Application Software>

Bugs Fixed

The following problem has been fixed:

- If Host I/F driver is Allen-Bradley Ethernet/IP (Logix Native Tag), the following problems might occur.
  - WindO/I-NV2 crashes while editing project.
  - A host communication error occur on the Touchscreen.

<Downloader>

Bug Fixed

The following problem has been fixed:

- "HG" is displayed in the communication message though Downloader communicates to the FT1A Touch.

WindO/I-NV2 Ver.4.74

<Runtime System Software>

Improvements

The following improvement has been added:

- Toshiba Machine Works, Hitachi and Mitsubishi FREQROL series PLC are supported. This is applicable to HG4G/3G and HG2G-5F.

Bugs Fixed

The following problem has been fixed:

- If BCD8, BIN32(+), BIN32(+/-) or float32 is selected as data type in Numerical Display, Data Over function does not work. This is applicable to HG2G-5S/-S.

<Application Software>

Bugs Fixed

The following problem has been fixed:

- If allocating a host device to the following configurations, the part object does not work according to the device value.
  - Line Chart: Minimum, Maximum, Display Point, Scroll Size
  - Bar Chart: Origin, Minimum, Maximum

WindO/I-NV2 Ver.4.72, 4.73

What's new in WindO/I-NV2 Version 4.73

<Application Software>

Bugs Fixed

The following problems have been fixed:

- This is applicable to a communication driver, Allen-Bradley Ethernet/IP (Logix Native Tag). If the name of Logix Native Tag is changed on the Tag Editor and it is allocated to the trigger condition, the trigger condition might be blank after re-opening the project file.
- If "Address with Relative Value" is selected as "Replace Type" and "All" is not selected as "Search Range", the Replace can not be performed.
- When User Communication is selected on Protocol1 ~ 3 on the Project Settings dialog box, the Port No. of MICRO/I and Target can not be same.
- If the Condition is "While satisfying the condition" or "Satisfy the condition", the tag name including the strings "SM", "SD", or "WSM" cannot be configured on the trigger condition.

What's new in WindO/I-NV2 Version 4.72

<Runtime System Software>

Improvements

The following improvement has been added:

- "Horizontal(Flip)" is supported as Installation orientation. This is applicable to HG2G-5S/-S.

Bugs Fixed

The following problems have been fixed:

- If scan speed is low, sound file can not be played sequentially. This is applicable to HG4G/3G.
- When popup screen is closed, sound file playback is stopped. This is applicable to HG4G/3G.

<Application Software>

Improvements

The following improvement has been added:

- New features and improvements are added from the Runtime System Software upgrade.

WindO/I-NV2 Ver.4.71

<Runtime System Software>

Improvements

The following improvement has been added:

- Ethernet communication in SIEMENS S7-1200 is now supported. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

Bugs Fixed

The following problems have been fixed:

- A user that belongs to Operator/Reader group cannot access to the Web Server Function. This is applicable to HG4G/3G and HG2G-5F.
- "Stroke" or "7-Segment" is selected as "Font" and "None" is selected as "Image Type" in Numerical Input or Numerical Display, they don't display proper image. This is applicable to HG4G/3G and HG2G-5F.
- If text on a lamp is located outside of the screen, the lamp does no update properly. This is applicable to HG4G/3G and HG2G-5F.
- If file copy function is performed from USB Autorun Function, file copy process may be stopped. This is applicable to HG4G/3G and HG2G-5F.

<Application Software>

Improvements

The following improvement has been added:

- New features and improvements are added from the Runtime System Software upgrade.

Bugs Fixed

The following problems have been fixed:

- Specific tag name may be judged to be an error in the trigger conditions of the part objects and Script Editor.
- When you use Script Editor to edit scripts, WindO/I-NV2 might crash.
- Screen image may not be printed correctly.
- Enable "Copy Data Log Data" for Data Log Function, and then specify Device for the end number of the Target Data. When you download this project, MICRO/I displays "Device range error".
- If a tag name is used in the script, MICRO/I might be reset after downloading the project.
- If a picture file is imported to the project file and the extension of picture file is "jpeg", an error message is displayed after version up conversion when opening a base screen and popup screen.

WindO/I-NV2 Ver.4.70

<Runtime System Software>

Improvements

The following improvements have been added:

- The following parts can now be displayed without flange and plate. This is applicable to HG4G/3G and HG2G-5F.
  - Numerical Input
  - Character Input
  - Message Display
  - Message Switching Display
  - Calendar

  For details, refer to the "View Tab" of each parts of the WindO/I-NV2 User's manual B1119(12).
- "float32" has been added as Data Type with the following parts. This is applicable to HG4G/3G and HG2G-5F.
  - Bar Chart
  - Pie Chart
  - Meter

  For details, refer to the "General Tab" of each parts of the WindO/I-NV2 User's manual B1119(12).
- The following functions have been added to CSV output function in Alarm Log function, Data Log function, and Operation Log function. This is applicable to HG4G/3G and HG2G-5F.
  - Handle a value of device as a string and set it as file name of CSV file
  - Add date and time to the file name
  - Execute real time output at an arbitrary timing

  For details, refer to the "Memory Card Output Tab" of each functions of the WindO/I-NV2 User's manual B1119(12).
- When **Real Time** is selected in Memory Card Output with Alarm Log function, Data Log function, and Operation Log function, the log data is output as a CSV file before the log data size exceeds the maximum amount of Data Storage Area. This is applicable to HG4G/3G and HG2G-5F.

  For details, refer to the "Memory Card Output Tab" of each functions of the WindO/I-NV2 User's manual B1119(12).
- Added a function to Numerical Input to display the data over maximum and minimum values. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

  For details, refer to Chapter 10 "■ Methods of using the Numerical Input" on page 10-3 of the WindO/I-NV2 User's manual B1119(12).
- Added a function to Data Log function to delete log data by channel. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

For details, refer to Chapter 14 "■ Clear Log Data" on page 14-18 of the WindO/I-NV2 User's manual B1119(12).

- Script used with Grobal Script can now be set up to a maximum of 16. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

  For details, refer to Chapter 20 "3.2 Global Script Settings Dialog Box" on page 20-14 of the WindO/I-NV2 User's manual B1119(12).
- The OFF image in Multi-State Lamp can now be set. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

  For details, refer to Chapter 9 "State Tab" on page 9-24 of the WindO/I-NV2 User's manual B1119(12).
- The following settings for Bar Chart can now be individually specified as **Value** or **Device**. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

  - Origin
  - Minimum
  - Maximum

  For details, refer to Chapter 11 "■ Data Format" on page 11-4 of the WindO/I-NV2 User's manual B1119(12).
- The following settings in Line Chart can now be specified as values of device. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

  - Minimum
  - Maximum
  - Display Points
  - Scroll Size

  For details, refer to Chapter 11 "General Tab" on page 11-22 of the WindO/I-NV2 User's manual B1119(12).
- The size of Password Screen can now be selected. This is applicable to HG4G/3G and HG2G-5F.

  For details, refer to Chapter 4 "■ Use Large Password Screen" on page 4-31 of the WindO/I-NV2 User's manual B1119(12).
- PLC Program Transfer Function now supports Ethernet communication. This is applicable to HG4G/3G and HG2G-5F.
- IDEC SmartAXIS Pro/Lite is supported. The name of host I/F driver was changed due to the addition of applicable models.

  - Old: OpenNet(FC3A),MicroSmart(FC4A/FC5A)

    New: OpenNet,MicroSmart,SmartAXIS Pro/Lite(RS232C/485)
  - Old: Web Server Unit(FC3A/FC4A/FC5A)

    New: OpenNet,MicroSmart,SmartAXIS Pro/Lite(Ethernet)
- Computer link communication for MITSUBISHI MELSEC-FX is now supported. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- Support "Use function6 instead of function16" function as optional setting if "Modbus/TCP Client" is selected as Host I/F Driver. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

Bugs Fixed

The following problems have been fixed:

- When **Close Popup Screen** is set in Goto Screen Command, other parts placed on the

same screen might not be displayed. This is applicable to HG4G/3G and HG2G-5F.

- When playing a movie while a sound file is playing, LSD72 (sound ID of sound file during playback) does not become 0. This is applicable to HG4G/3G.
- When SD memory card is inserted in MICRO/I, it may not be possible to download the project to MICRO/I with the USB cable. This is applicable to HG4G/3G and HG2G-5F.
- When a sound file is set for the touch sound, the following problem occurs. This is applicable to HG4G/3G and HG2G-5F.

  - It may not be opened the System Screen while displaying video input.

  - Play a movie file and press **Stop**. When a sound file is next played, playback of the movie restarts after the sound file finishes playing.
- On Numerical Input, an error is not displayed even if a value that exceeds Minimum or Maximum is entered. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- With **Pen Recorder** of Line Chart, when the chart to display is one line, the chart disappears when updating the display stops. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- With **Normal** or **Pen Recorder** of Line Chart, the following problems occur. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

  - The oldest data cannot be displayed, even by stopping display updates and scrolling right

  - If grid lines were displayed, the grid lines are deleted when the log data displayed on the chart is cleared

  - If the log data is cleared when the log data is a single point displayed on the chart, the chart is not updated even when new log data is acquired
- With **Horizontal Peak** or **Vertical Peak** of **Bar Chart**, if either values of **Minimum** and **Maximum** are 0, the chart is not displayed correctly.
- When displaying 32-bit data using channel 17 through 20 of Line Chart, the chart may not be correctly displayed. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- When KEYENCE KV-3000/5000 is selected as the host I/F driver, the X, Y, M address progression differs from the PLC programming software. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

<Application Software>

Improvements

The following improvement has been added:

- New features or improvements are added from the Runtime System Software upgrade.

Bugs Fixed

The following problems have been fixed:

- In preview or printing, units set to Numerical Input and Numerical Display may be displayed extending from part objects. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- The following error message may be displayed when converting or saving a project.

  - Disk Full Error
- When specifying the bit of a word device with Batch Monitor, the 16th bit is not displayed.

- When downloading a project that uses Script to MICRO/I, the device range error may be displayed on MICRO/I.
- In the following situations, you may not be able to import tag names and comments with Tag Editor.

  - No space in between device symbols and addresses

  - Addresses are zero suppressed
- In Tag Editor, tag names, comments, and usage status information for device address "P 370" and "P37 0" of MITSUBISHI FREQROL become the same.

WindO/I-NV2 Ver.4.66

<Runtime System Software>

Bugs Fixed

The following problems have been fixed:

- Sound file playback may be late after the trigger is ON. This is applicable to HG4G/3G Multimedia model.
- If Video Display has displayed the image from the video input, then the value of trigger devices for two or more sound files change from 0 to 1 at the same time, the highest-priority sound file is not played back and the second one is played back. This is applicable to HG4G/3G Multimedia model.
- Using the following drivers, MICRO/I may not display the proper state of Timer(contact) and Counter(contact). This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
  - MELSEC-FX(CPU)
  - MELSEC-FX2N(CPU)
  - MELSEC-FX3UC(CPU)
- Touch panel might not work while operating the MICRO/I. This is applicable to HG2G-5ST22VF.

<Application Software>

Bugs Fixed

The following problem has been fixed:

- The project file size might bloat while editing a project, and then it takes much time to open it.

WindO/I-NV2 Ver.4.65

<Runtime System Software>

Improvements

The following improvements have been added:

- In MELSEC-FX2N（CPU） and MELSEC-FX3UC（CPU） drivers, Higher communication speed than 9600bps is supported. The maximum communicating speed is depends on the CPU unit. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- The maximum number of "Read-source Devices" on a Popup Screen is expanded to 256 from 64. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- Compatible functions for old products are supported.This function can be configured in Compatibility tab on Project Settings dialog box.This is applicable to HG4G/3G and HG2G-5F/-5S/-S.(HG1F/2F/3F/4F has already supported)

Bugs Fixed

The following problems have been fixed:

- Sound file cannot be played after Video Input is displayed. This is applicable to HG4G/3G.
- If the project file in the MICRO/I is more than 6Mbyte, the project download via Ethernet may be failed.This is applicable to HG4G/3G and HG2G-5F.
- If Host devices are used in both Sound function and the following functions or settings, and Monitor function is used in WindO/I-NV2, MICRO/I may be reset. This is applicable to HG4G/3G and HG2G-5F.
  - System Area
  - Global Script
  - Disable Switch setting on the System tab in the Project Settings dialog box
  - Settings on the Options tab in the User Accounts dialog box
  - Preventive Maintenance
- MICRO/I is set as TCP Server using User Communication. If TCP connection is disconnected by Server (MICRO/I), Client may not be able to connect the Server again. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- In Operation Log function, logging data may not be saved to the SD memory card even if the **Trigger Device** of the **Batch** is ON. This is applicable to HG4G/3G and HG2G-5F.

<Application Software>

Improvements

The following improvement has been added:

- New features or improvements are added from the Runtime System Software upgrade.

Bugs Fixed

The following problems have been fixed:

- If size of the script is big, the MICRO/I might be reset after downloading a project.
- Property of Goto Screen for Multi-Functions gets an error if X/Y coordinates is not a multiple of 20. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- When a project file for HG2F/3F/4F is converted to HG2G-5FT or HG3G/4G, the MICRO/I might output CSV files for the logging function as the invalid name on Memory Card.
- This is applicable to a communication driver, Allen-Bradley Ethernet/IP (Logix Native Tag). A tag name on part object and settings might be changed to the other unintended tag name while editing the project.
- A script error might be shown on the MICRO/I if selecting **Dot (WindLDR Format)** as **Bit Number Symbol** on WindO/I Options in a project that had been downloaded.

WindO/I-NV2 Ver.4.64

<Runtime System Software>

Improvements

The following improvement has been added:

- The maximum number of "Read-source Devices" on a Popup Screen is expanded to 256 from 64. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

<Application Software>

Improvements

The following improvement has been added:

- New features or improvements are added from the Runtime System Software upgrade.

Bugs Fixed

The following problem has been fixed:

- This is applicable to a communication driver, Allen-Bradley Ethernet/IP (Logix Native Tag). If a project is downloaded after editing, a host communicaiton error may occur on the Touchscreen.

WindO/I-NV2 Ver.4.63

<Runtime System Software>

Bugs Fixed

The following problem has been fixed:

- If Windows font is used as unit in Numerical Display and Numerical Input, a part of these frange may be filled with the plate color.This is applicable to HG2G-5S/-S.

<Application Software>

Bugs Fixed

The following problems have been fixed:

- Project Settings dialog box can get an error and cannot be closed if projects saved with version before 4.44 are opened with Ver.4.62. This is applicable to HG4G/3G and HG2G-5F.
- The Property dialog box of the part objects can get an error and cannot be closed if the Trigger Condition is enabled and the Trigger Type is "While satisfying the condition" or "Satisfy the condition". This is applicable to HG4F/3F/2F/2S/1F.

WindO/I-NV2 Ver.4.62

<Runtime System Software>

Improvements

The following improvements have been added:

- Improved the project upload process. WindO/I-NV2 only uploaded the related files from the Access folder in the SD card when uploading a project file. This is applicable to HG4G/3G, HG2G-5F.
- Retained the text color of a unit when entering a number. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.

Bugs Fixed

The following problems have been fixed:

- The Alarm function in the Calendar object does work properly. The alarm bit is turned on and off inconsistently. This is applicable to HG4G/3G, HG2G-5F.
- When controlling the LEY devices by using an offset in script or Reference Device, outputs in the expansion module does not work. This is applicable to HG4G/3G, HG2G-5F.
- If Reference Device is used in Numerical Input, Numerical Display or Character Input, the Visible/Invisible function and object overlap do not work correctly while the Reference Device value is being changed or while the value is invalid. This is applicable to HG4G/3G, HG2G-5F.
- If Reference Device is used in a Numerical Input or a Numerical Display and the Visible/Invisible condition is changed, a Device Range Error could occur. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- In a Numerical Input and a Character Input, if the number or character is set to be displayed as an asterisk (*), the number or character is displayed in the Keypad window. This is applicable to HG4G/3G, HG2G-5F.
- In a Numerical Input, if Current Screen is selected as Keypad Type and Always Entry Mode is enabled, data could not be entered properly if the visible/invisible condition is changed while entering data. This is applicable to HG4G/3G, HG2G-5F.
- A move file is not played automatically when "Use Event Recording" is enabled, even if "Auto Play" is enabled in the Video Display object. This is applicable to HG4G/3G.
- MICRO/I may stop if uploading/downloading data or changing system mode when it starts playing movie file. This is applicable to HG4G/3G.
- When the MICRO/I starts running, movie file may not be played. This is applicable to HG4G/3G.
- If a host device is set to ”Report when Sampling Count has reached or exceeded Threshold” or “Report when % Space Used has reached or exceeded Threshold” in Data Log settings, invalid value is written to the device. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- The display size of the movie file may be smaller than the Video Display. This is applicable to HG4G/3G.

<Application Software>

Bugs Fixed

The following problems have been fixed:

- An NG error can appear if MEMCPY and MEMCMP were used in a script.
- If a NMF file is allocated to a state of the Multi-State Lamp, it can become "Unregistered" after overwriting the same file by importing another NMF file to the Picture Manager.
- The Popup Screen No. for the Key Button "Alt" become 1 after closing the Properties dialog box. This is applicable to HG4G/3G, HG2G-5F and Windows 7 64-bit edition.
- Project Settings dialog box can get a "Device empty" error and cannnot be closed. This is applicable to HG4G/3G and HG2G-5F/-5S/-S.
- The device count in Tag Editor and Cross Reference for devices being used in a script can be corrupted when those devices are allocated to Part objects and the other settings dialog box.
- In a Numerical Input and a Numerical Display, the number and the unit are not always displayed according to the configured font. This is applicable to HG4G/3G and HG2G-S/-5S/-5F.
- A "Device Range Error" is sometimes shown on the touchscreen if an internal device is set in a script in a project that had been uploaded and re-downloaded.
- In a Multi-Button, when a script command is executed at the beginning of the Function List and View Switching Method is set to Device, the image of the switch is not always changed by the value of the allocated device.
- The width and height of a .JPG file is shown as 0*0 after it was imported to the Picture Manager. This is applicable to HG2G-5S/-S.
- When the project name is changed in the Explorer tree, WindO/I-NV2 is sometimes unable to open the project. This is applicable to HG2G-5S/-S.
- The Cross Reference dialog box sometimes displays incorrect information for a device having a hexadecimal address.
- If the Host I/F driver is MELSEC-Q/QnA(Ethernet), the displayed device address in Tag Editor is not correct if the device type is WB, WX or WY.
- Part objects are sometimes not displayed on the touchscreen.

WindO/I-NV2 Ver.4.61

<Runtime System Software>

Bugs Fixed

The following problems have been fixed:

- In the User Communication function, when either Device, Registering Constant (Character or Hexadecimal) is contained in a transmission (TXD) command, communication stops and the MICRO/I resets.
- When the Web Server function is used for long periods of time, the web server might no longer be accessed by clients.
- The information displayed under Slave Online Status on the Web Server function's System Information - System Detailed Information page is not correct.

<Host I/F Driver>

Bugs Fixed

The following problem has been fixed:

- When Omron SYSMAC CS1/CJ Series(Ethernet) is selected, Host Communication Error appears if Fatal CPU Unit error or Non-fatal CPU Unit error happens in the PLC.

<Application Software>

Improvements

The following improvement has been added:

- This is applicable to a communication driver, Allen Bradley Ethernet/IP (Logix Native Tag). During a tag database (L5K and CSV file) import, a message has been added to alert a user if the tag imported is not supported. The customer will have the option to bypass the repeated message and continue with the download of supported tags only.

Bugs Fixed

The following problems have been fixed:

- All settings disappear when projects saved with Ver. 4.50 or Ver. 4.51 are uploaded with Ver. 4.60. This is applicable to HG4G/3G, HG2G-5F/-5S/-S.
- This is applicable to a communication driver, Allen Bradley Ethernet/IP (Logix Native Tag). If a project is downloaded after deleting the parts configured with the host device, a host communicaiton error may occur on the Touchscreen.
- If a project is downloaded with text registered in Text Manager as the Registration Text for a Multi-State Lamp, it may not be displayed on the MICRO/I. This is applicable to HG4G/3G, HG2G-5F.

- If scripts are configured that use the ASCII2DEC, STRSTR, or STRLEN functions in projects saved with versions before 4.44, NG may be displayed in Script Manager when those projects are opened with version 4.50 and later but before Ver. 4.60.
- The "Disk is full" error might be displayed if projects saved with versions before 4.44 were later opened in version 4.50 to 4.60.
- If a project created as 1:N Communication under Connection in the host I/F driver settings is changed to 1:1 Communication, the values of devices configured with a station number other than 0 can no longer be read or written.
- If the O/I type is changed, the Alarm Log Display data becomes invalid, and when this project is downloaded, the MICRO/I resets. This is applicable to HG4G/3G, HG2G-5F.
- If the O/I type is changed to HG4G/3G, HG2G-5F with project data uploaded from HG1F/2F/2S/3F/4F, the picture data may disappear.

WindO/I-NV2 Ver.4.52, 4.60

What's new in WindO/I-NV2 Version 4.60

<Runtime System Software>

Improvements

The following improvements have been added:

- The IP address for hosts configured in Project Settings and Host I/F Network can now be modified on the System Menu. This is applicable to HG4G/3G, HG2G-5F/-5S-S. For details, refer to Chapter 33 "■ Host I/F Network" on page 33-13 of the WindO/I-NV2 User's manual B1119(11).
- The user communication send and receive data size has been expanded to 1500 bytes. This is applicable to HG4G/3G, HG2G-5F/-5S/-S. For details, refer to Chapter 3 "● Transmission Command Settings - Constant" on page 3-10 and Chapter 3 "● Receive Command Settings - Constant" on page 3-18 of the WindO/I-NV2 User's manual B1119(11).
- 5x, 6x, 7x has been added to the text magnification. This is applicable to HG4G/3G, HG2G-5F/-5S/-S. For details, refer to the "Magnification" setting of each objects of the WindO/I-NV2 User's manual B1119(11).
- The execution interval for the remote monitor & control has been expanded to a maximum of 5000 milliseconds. This is applicable to HG4G/3G, HG2G-5F. For details, refer to Chapter 27 "Execution Interval" on page 27-3 of the WindO/I-NV2 User's manual B1119(11).
- EX4R is supported.
- The FC5A-D12 is now supported with the PLC program transfer function. PLC program from an SDmemory card or USB flash drive inserted on the touchscreen. This is applicable to HG4G/3G, HG2G-5F.
- The recording function has been improved. This is applicable to HG4G/3G. For details, refer to Chapter 22 "● Record tab" on page 22-14 of the WindO/I-NV2 User's manual B1119(11).

Bugs Fixed

The following problems have been fixed:

- Calendar data may have invalid values when using the remote monitoring and remote control functions or cyclic scripts. This is applicable to HG4G/3G, HG2G-5F.
- If a shadow style is selected as the drawing object , the background color would not display. This is applicable to HG4G/3G, HG2G-5F.
- If a project with Ignore communication errors and continue operation is selected and downloaded to an O/I link slave, then the Network Offline is displayed and the operation would not work. This is applicable to HG4G/3G, HG2G-5F/-5S/-S.
- If a project with Ignore communication errors and continue operation is selected & downloaded to an O/I link master, the O/I link slave does not recover from Network Offline if a host communication error occurs. This is applicable to HG4G/3G, HG2G-5F/-5S/-S.

<Host I/F Driver>

Additional supported Drivers:

- Additional supported Drivers: - YASKAWA MP2000 series (Ethernet)
- Mitsubishi MELSEC-Q/QnA（Ethernet） driver communication speed was improved. This is applicable to HG4G/3G, HG2G-5F/-5S/-S.
- Emerson ROC Protocol driver is not only supported in HG4G/3G and HG2G-5F but also now in HG2G-5S/-S.

<Application Software>

Improvements

The following Improvements have been added:

- Changed the Save Screen As shortcut to Ctrl+G and assigned the shortcut Ctrl+A to Select All.
- New features or improvements are added from the Runtime System Software upgrade.
- If Zooming Conversion is selected in the Set Conversion Option, it will automatically adjust the size of the registered text and coordinates of the screens (i.e. Overlay Screens or Goto Screen button).

Bugs Fixed

The following problems have been fixed:

- When the host I/F driver is Allen-Bradley Ethernet/IP (Logix Native Tag), WindO/I-NV2 may be forcibly terminated if tags are used for device addresses.
- When multiple objects are selected and moved, a portion of the objects may not move to the intended location.
- If the editing window zoom is set to 100% or more when selecting objects, the cursor may move to an unintended location.
- Create a HG2G-S/-5S project, add a selector switch, and close the screen. When the screen is opened again, the selector switch is displayed in the location (0,0).
- When opening a project created with an old version, the device information may become invalid.
- When Picture Manager is opened, the thumbnails may disappear.

What's new in WindO/I-NV2 Version 4.52

<Runtime System Software>

Improvements

The following improvement has been added:

- The new password is not requred when transferring a project file from the SD Card/USB Flash Drive which contains that new password. This is applicable to HG4G/3G, HG2G-5F.

Bugs Fixed

The following problems have been fixed:

- When the Start Time in the Project Settings dialog box is configured, you can not monitor the MICRO/I properly after clicking the Start Monitor in the Monitors group on the Online tab. This is applicable to HG4G/3G, HG-S/-5S/-5F.
- Remote Control and Monitoring and Port No. settings in the Web Server tab on the Project Settings dialog box does not work properly. This is applicable to HG4G/3G, HG2G-5F.
- In the System Detail Information page on the Web browser, the IP, Netmask, Gateway, and MAC Addresses are displayed incorrectly. This is applicable to HG4G/3G, HG2G-5F.
- The limitation of the read device addresses per Base Screen is 256. If the total read device addresses on a Base Screen is 256, MICRO/I may display the Device Range Error. This is applicable to HG2G-S/-5S.
- If you repeatedly press the touchscreen for 3 seconds, you can go to the system mode without the password confirmation even though the touchscreen's project is password protected. This is applicable to HG4G/3G, HG2G-5F.

WindO/I-NV2 Ver.4.50, 4.51

What's new in WindO/I-NV2 Version 4.51

<Runtime System Software>

Bugs Fixed

The following problems have been fixed:

- HG4F/EX4R/HG3F/2F/2S/1F may reset if some data is written to Device Address with Downloader while occuring Host Communication error.
- When the following conditions are satisfied, HG2G-5F and HG4G/3G can't copy Data Log to Device Address with Data Log function.

  - Data Size is 32 bit.

  - The number of the logged Data is greater than the setting of "Number of Stored Data for Data Log per Device".

  - The setting of "End No." for "Target Data" is greater than 1.

<Application Software>

Bugs Fixed

The following problems have been fixed:

- Script Manager shows an error when using the bit of word device (E.g. LDR0000-0).
- The tag name for the bit of word device cannot be allocated to the property of parts and the respective settings.

What's new in WindO/I-NV2 Version 4.50

<Runtime System Software>

Improvements

The following improvements have been added:

- Added an advance function to each part with the option to make a part (i.e. button) operable or non operable and visible or hidden depending on the device value or condition. This is applicable to HG4G/3G, HG2G-5F.

  For details, refer to the “Trigger Condition Tab” of each parts of the WindO/I-NV2 User's manual B1119(9).
- It is now possible to set the User Communications to the Ethernet Interface. This is applicable to HG4G/3G, HG2G-5F/-5S/-S.

  For details, refer to Chapter 4 “3.2 Communication Interface Tab” on page 4-32 of the

WindO/I-NV2 User's manual B1119(9).

- Add the HG Special Relay (LSM24). This bit is ON while writing to the memory card. This is applicable to HG4G/3G, HG2G-5F.

  For details, refer to Chapter 32 “HG Special Relay (LSM)” on page 32-3 of the WindO/I-NV2 User's manual B1119(9).

Bugs Fixed

The following problems have been fixed:

- The display update speed becomes slower when the **Picture** is used on the screen. This is applicable to HG4G/3G, HG2G-5F.
- A specific size of Bitmap is not displayed correctly. This is applicable to HG4G/3G, HG2G-5F.
- If used with screens overlapping, "Device range error" may not be displayed.
- If the Numerical or Character Input is protected by using the Security Function, you can still set a value to it. When you moved the focus to it by using the **Focus is moved by ENT button** setting, this problem occurs.
- Text within the text display area frame on parts in WindO/I-NV2 may not be displayed on the MICRO/I. This is applicable to HG4G/3G, HG2G-5F.
- The message in the Result window at times doesn't appear after copying the files from SD card to USB flash drive using the Key Button to transfer data.
- After copying the files by using the Key Button (labeled Copy Files under Data Transfer) on either Memory Card or USB flash Drive, the folder icon is displayed without the folder name.　This is applicabl eto HG4G/3G, HG2G-5F. This is shown on the PC.
- Data cannot be uploaded from a Memory Card inserted in the MICRO/I set to O/I Link Slave. This is applicable to HG4G/3G, HG2G-5F.
- The Web Server function cannot be used from Internet Explorer with certain PCs. This is applicable to HG4G/3G, HG2G-5F.

<Host I/F Driver>

Additional supported Drivers:

- FUJI MICREX-SX（Serial）
- FUJI MICREX-SX（Ethernet)
- Emerson Floboss107

Bugs Fixed

The following problems have been fixed:

- When the **Allen-Bradley PLC-5 or SLC500** is selected for the **Expression of Device Address Format** , the Device Monitor cannot be used. This is applicable to HG4G/3G, HG2G-5F/-5S/-S.
- When the **1:N Communication** is selected for the **Connection** with the Modbus/TCP Client, no recovery when a communication error occurs. This is applicable to HG4G/3G, HG2G-5F/-5S/-S.
- When the **1:N Communication** is selected , a value may be read for the Address differs from the one specified according to the combination of the Station Number and the Address.　This is applicable to the following Host I/F drivers:

- Ethernet/IP
- Logix DF1(Full Duplex)
- DirectLogic(Ethernet)
- KV(Ethernet)
- MELSEC-FX3U(Ethernet)

<Application Software>

Improvements

The following improvements have been added:

- New features or improvements are added from the Runtime System Software upgrade.
- When creating a new project, the description for the HG Special Registers (LSD) and the HG Special Relays (LSM) is now registered in the Comment.

Bugs Fixed

The following problems have been fixed:

- When changing the O/I Type from HG4G/3G to HG2G-5F, the size of the Popup Screen may not be change correctly.
- When opening a project saved with WindO/I-NV2 Ver. 2.50 or earlier in Ver. 4.00 or later and changing the O/I type from HG4F/3F/2F to HG4G/3G, HG2G-5F, the settings in the **Communication Interface** tab may not be converted correctly.
- The data under the Data List on Recipe Settings might change values to 0 if the following actions are taken:
  - Change O/I type.
  - Upload a project.
  - Change the Access to for the Recipe Settings from the Memory Card to Internal Memory.
- The tag name may be judged as an error in the Script Editor.
- When a project is opened, the size of the NV2 Metafile (NMF) may change.
- A confirmation to save may be displayed when closing the project or when downloading even when the settings for the project and the screens are unchanged.
- If the project is downloaded via Ethernet, the system software download may fail.
- If a project for HG4G/3G, HG2G-5F created with WindO/I-NV2 Ver.4.44 is used, a button may function though the another button is pressed on the screen of MICRO/I.
- When uploading the files from the memory card, it may fail.
- If Download Project is performed with the option [Modified Data Only] and that operation is failed by canceling the operation or occurring a communication error, WindO/I-NV2 returns an error when performing the same operation again.

WindO/I-NV2 Ver.4.44

<Runtime System Software>

Improvements

The following improvements have been added:

- Added the recording function to the HG3G/4G (video interface equipped models).
- Increased the number of blocks for the alarm log setting to a maximum of 128. This is applicable to HG2G-S/-5S/-5F, HG3G/4G.
- Increased the amount of alarm log data storage with the data storage area setting for the following models.
  - HG2G-S/-5S: 5,520 points
  - HG2G-5F, HG3G/4G: 11,660 points
- HG3G/4G (video interface equipped models): Added a function to adjust the size of a the movie file display to be 2x the display size so it will display correctly on the Video display. For instance, if the original display size of the movie file is 100x100 and the size of the Video display is 400x400, the original movie file display will get adjusted automatically to 200x200.
- HG3G/4G (video interface equipped models):The video display can be setup and connected at anytime. There is no restriction as to when it can be connected.
- Added the **Slow** and the **Frame Fwd** to the Key Button for the HG3G/4G (video interface equipped models).
- When connect a device to Audio IN/Audio Out interface of the HG3G/4G, use stereo mini plug. If the device only supports monaural input/output, use a monaural to stereo converter.

Bugs Fixed

The following problems have been fixed:

- HG3G/4G (models not equipped with the video interface): Sounds with a specific sampling frequency does not play normally.
- When monitoring HG2G-5F, HG3G/4G with the Remote Control function, the O/I Type on the Target Information page always shows "HG3G-*"
- The picture may remain displayed when a movie finishes playing. This is applicable to HG3G/4G (with video interface only).
- The File Screen for movie data may not update. This is applicable to HG3G/4G (with video interface only).
- If the number of alarms that occurred on HG-S/-5S/-5F, HG3G/4G exceeds the **Number of Stored Data for Alarm Log**, HG-S/-5S/-5F, HG3G/4G may reset or stop displaying data on the Alarm List Display and Alarm Log Display.

<Host I/F Driver>

Expanded Drivers:

- Extended the range of usable devices for Allen Bradley PLC-5 (Half Duplex). Applicable for HG2G-S/-5S/-5F and HG3G/4G.

Bugs Fixed

The following problems have been fixed:

- If **Ignore communication errors and continue operation** is selected as one of the host I/F drivers below, the value for the host devices may not be set in parts and settings.
  - OpenNet(FC3A),MicroSmart(FC4A/FC5A)
  - DirectLogic-DL205/405
  - Modbus RTU
  - MODBUS/TCP Client
  - Web Server Unit(FC3A/FC4A/FC5A)
  - Ethernet/IP
  - MELSEC-Q/QnA(Ethernet)
  - Logix DF1(Full Duplex)
  - DirectLogic(Ethernet)
  - SYSMAC CS1/CJ Ethernet
  - Modbus ASCII
  - KV(Ethernet)
  - Ethernet/IP(Native Tag)

<Application Software>

Improvements

The following improvement has been added:

- New features or improvements are added from the Runtime System Software upgrade.

Bugs Fixed

The following problems have been fixed:

- After the project is downloaded to the MICRO/I with the **Zooming Conversion** selected and **Change O/I Type** executed, the size of parts displayed on the MICRO/I differs from the size displayed on the WindOI-NV2.
- If you change the project file name (for HG2G-S/-5S) in Windows Explorer , the project can not be downloaded to the touchscreen.
- Upload a project from HG2G-S with project file created in WindOI-NV2 ver. 4.24 or older, the device settings are completely erased if the project name is changed in the upgrade version.

WindO/I-NV2 Ver.4.43

<Runtime System Software>

Bugs Fixed

The following problems have been fixed:

- When power on the HG2G-5S, it may continue resetting (POWER LED keeps blinking.)
- If a host word device is used in popup screen, and a bit in the word device is changed in base screen or popup screen, an incorrect value may be written to the word device. (For HG1F/2F/2S/3F/4F, this problem only happens when the 1:N Communication is selected as the Connection Type.)
- If host bit device is used in the following functions, the correct device value can not be read. (For HG1F/2F/2S/3F/4F, this problem only happens when the 1:N Communication is selected as the Connection Type.)
  - Alarm
  - Data Log
  - Operation Log
  - Reference Device/Offset Device
  - Device Monitor function in Web server
  - Monitor function in WindO/I-NV2
- When the Character Input set as Use as Display for Keypad is used with the HG2G-5F or HG3G/4G, the characters are not displayed properly.

WindO/I-NV2 Ver.4.42

<Runtime System Software>

Bugs Fixed

The following problems have been fixed:

- In the HG2G-S/-5S/-5F and HG3G/4G, if the following host I/F driver is selected in the project, MICRO/I may stop operation when you cycle power or download/upload a project file.
  - Modicon Modbus RTU
  - Modicon Modbus ASCII
  - SIEMENS S7 MPI
  - SIEMENS S7-200(PPI)
  - Yasukawa MP920-RTU
- In the HG2G-S/-5S/-5F and HG3G/4G, downloading/uploading a project via Ethernet may be failed, and then you can not download/upload a project. In addition, Remote control function may not be available.
- In the HG2G-5F and HG3G/4G, MICRO/I may not recognize SD Memory Card.

<Host I/F Driver>

Bugs Fixed

The following problems have been fixed:

- PLC device value may not be updated if using Koyo DirectLogic-DL205/405 driver.
- If Keyence KV-3000/5000 driver is selected in the project, the device value of Link Relay(B), Work Relay(VB) and Link Resistor(W) may not be referenced to the PLC device value. In addition, If you write a value to those devices, it may not be written to the PLC.

<Application Software>

Bugs Fixed

The following problem has been fixed:

- In the **Individual Settings** dialog box of the Recipe Settings, on the **Data** tab, 0 is always set to the **Data** column in the **Data List** if the Memory Card is selected from the **Access to**.

WindO/I-NV2 Ver.4.41

<Host I/F Driver>

Additional supported Drivers:

- MITSUBISHI FX3U (Ethernet)
- YOKOGAWA FA-M3 (Ethernet)

Expanded Drivers:

- KEYENCE KV5000 driver: Added more range or device addresses.

Bugs Fixed

The following problems have been fixed:

- Communication error occurs on the HG2G-5F, HG3G/4G if using the Allen-Bradley Ethernet/IP driver.
- Communication may slow and communication errors may be displayed if using the the KEYENCE KV(Ethernet) driver with the HG2G-S/-5S.

<Application Software>

Bugs Fixed

The following problems have been fixed:

- If the MICRO/I type in a project that uses a period in the project name anywhere other than the extension is changed, the location where the MICRO/I internal devices had been configured becomes blank. For instance, if you make a project named "aaaa.bb" for HG3G, the project file will be "aaaa.bb.n3g". And you set a "LM 100" (HG Internal Device) to the Bit Button in this project. After changing the O/I type from HG3G to others, you will see that the device setting of the Bit Button is deleted.
- You may no longer be able to change the MICRO/I type when opening a project created with an old version
- Projects cannot be downloaded to the HG2S.
- When multiple pictures are registered in Picture Manager, if one of the pictures is removed and Picture Manager is reopened, WindO/I-NV2 might crash.

WindO/I-NV2 Ver.4.40

<Runtime System Software>

Improvements

The following improvements have been added:

- Supports 5.7" HG2G-5S (256 color TFT LCD Screen) & HG2G-5F (65K color), 8.4" & 10.4" HG3G w/ Multimedia, and 12.1" HG4G w/ Multimedia.
- HG3G/4G Series support multimedia (Video Input). Users are able to display video images on the touchscreen or play back a movie file stored from the SD memory card.
- HG2G-5F, HG3G/4G supports letter size paper when using the print function. (HG2G-S/-5S does not support the letter size paper)
- Back Space (BS) key has been added as a key button on a Key Pad when pressing the Numerical Input. This is only applicable to HG2G-S/-5S/-5F, HG3G/4G.
- The User Communication supports full duplex when using HG2G-S.
- Improvements have been made to print from the tray corresponding to the "normal paper" type in the printer-side settings when using the print function of the HG3G.

Bugs Fixed

The following problems have been fixed:

- When switching an operating mode with the HG3G (E.g. switch from the System Mode to the Run Mode), the SD memory card may not be recognized, causing operation to stop.
- When using the Remote Control function with the HG3G, the screen will continue to be displayed on the web browser even if screen display has been turned off.
- At power on of the HG3G, the expansion module may not be recognized.
- In the HG2G/3G, two overlapped buttons can not be active even if Enable Two-point Push in Project Settings is enabled. This problem only happens if one of the buttons is located in a Base Screen and another button is located in the Popup Screen. In addition, Superimpose is set as Screen Effects in the Popup Screen.
- If the DM Link communication is used with the HG3G, the HG3G may stop running when it sends a reply for a request command and an Event Transmission at the same instant.

<Host I/F Driver>

Additional supported Drivers: (HG3G)

- PLC-5 (Half Duplex)
- SLC 500 (Half Duplex)
- S7-300 3964(R)/RK512
- Power Mate-MODEL D/Series 16i
- MP920-RTU
- MICRO3,MICRO3C
- Ethernet/IP（Logix Native Tag）

Bugs Fixed

The following problems have been fixed:

- When selecting MODBUS/TCP Server with the HG2G/3G, the communication is lost if 3 or more clients are connected. In addition, Communication is lost if cable is connected and disconnected repeatedly.
- When "Koyo DirectLogic-DL205/405" is selected as Host I/F dirver, MICRO/I can not communicate to the PLC.

<Application Software>

Improvements

The following improvements have been added:

- Supports 5.7" HG2G-5S (256 color TFT LCD Screen)　& HG2G-5F (65K color), 8.4" & 10.4" HG3G w/ Multimedia, and 12.1" HG4G w/ Multimedia.
- New features or improvements are added from the Runtime System Software upgrade.
- A function that automatically converts the size of parts and draw objects to match the screen size when converting the O/I type has been added. You can see this option on the Set Conversion Option dialog box after selecting Change O/I type.
- A function that compares project data and displays setting differences in screen units has been added. To compare projects, On the Home tab, in the Project group, click Compare.
- A function that displays the usage of each script ID in the script manager has been added. You can see the usage in the Used column in the Script List.
- An option to download or not download picture and sound data to the memory card simultaneously with the download of project data has been added.
- When WindO/I-NV2 closes abnormally, it could damage the device address usage information. A command that rebuilds device address usage information has been added. Right click the tag editor in the project window and then click Rebuild.

Bugs Fixed

The following problems have been fixed:

- The device usage information will become invalid in Tag Editor or Cross Reference.
- When an old version of the project has been opened, the device address that has been set may disappear.
- When using the HG3G and setting it to the USB port in communication settings and if a project is downloaded while monitoring or while in simulation, the monitor or simulation mode will not reopen after the download is complete.

<Downloader>

Improvements

The following improvements have been added:

- Supports 5.7" HG2G-5S (256 color TFT LCD Screen)　& HG2G-5F (65K color), 8.4" & 10.4" HG3G w/ Multimedia, and 12.1" HG4G w/ Multimedia.
- A command line that downloads projects without clearing the HG Keep Register (LKR)

and HG Keep Relay (LK) has been added.

- A command line that downloads projects without downloading picture or sound data to the memory card has been added.

Bug Fixed

The following problem has been fixed:

- Projects cannot be downloaded to the HG2G-S.

<USB Autorun Definition File Creation Tool>

Added the USB Autorun Definition File Creation Tool, which generates USB Autorun definition file that are required when using the USB Autorun function. Go to Start menu, click Automation Organizer, WindO/I-NV2 and then click USB Autorun Definition File Creation Tool.

<Manual>

- Changed the name of Instruction Manual to User's Manual.
- United the Hardware Manual to the User's Manual.

WindO/I-NV2 Ver.4.32

<Runtime System Software>

Bugs Fixed

The following problems have been fixed:

- The project will fail to download if more than 4MB of project already existed in the HG3G.
- The HG3G can not be controlled by the remote control function when back light is OFF.
- If “Disable Switch” option is enabled in Project Settings, the HG3G should not be controlled by touch panel and remote control function, but it can be controlled from the remote control function.
- The button will not blink if "Device" is selected as the“View Switching Method” and the “Blink” mode is enabled.

WindO/I-NV2 Ver.4.31

<Runtime System Software>

Bugs Fixed

The following problems have been fixed:

- When screen switching occurs during communication with the O/I Link, O/I Link communication errors may occur or the MICRO/I may reset. However, this problem will occur with the HG1F/2F/3F/4F only when using 1:N communication.
- The following are applicable when using the HG3G Series Touchscreen:

  - When parts are placed in layers on the screen, the layered parts will not be properly displayed.

  - The touchscreen will reset depending on the size of the Windows Font.

<Application Software>

Bugs Fixed

The following problems have been fixed:

- After deleting a picture from the Picture Manager that was registered to a project and then importing a new picture file caused the screen to display an incorrect picture.
- When registering multiple pictures in an HG3G project that was created in Ver. 4.2*, opening or uploading the project in Ver 4.30 displays an error message that states "Insufficient memory".

WindO/I-NV2 Ver.4.30

<Runtime System Software>

Improvements

The following improvements have been added:（HG3G）

- Remote Monitor and Control function
  - Using a web browser on your PC, PDA or smart phone, you can remotely monitor & control the HG3G Series & PLC for easy maintenance, test, or troubleshoot.
- Be able to mount in Portrait (Vertical) mode.
- The line chart displays “time” on the x-axis at the cursor position when in manual mode.
- Data logs support 32-bit data (BIN 32+, BIN 32+/-, BCD-8, or float 32).
- Pictures can be set as a background image of the following parts.
  - Numerical Input, Numerical Display, Character Input, Message Display, Message Switching Display, Calendar, Meter
- PictBridge protocol for USB printers is now supported. The USB printer can print screen images and alarm log data.
- Brightness can be adjusted in 48 levels.

Bugs Fixed

The following problems have been fixed:（HG3G）

- The screen title was missing when a Picture Display was placed at the top of a popup screen.
- Picture Display reference devices would reset when they were outside the specified range.
- Meter needles were not displayed properly.
- Text would not display correctly when Windows fonts were used for the Y-axis label on a Line Chart.
- Plotting would stop when the scroll function was used if the number of display points and the scroll step size in a Line Chart were similar.

<Host I/F Driver>

Additional supported Drivers: (HG3G)

- MODBUS/TCP Server
- Koyo DirectLogic (Ethernet)
- GE Fanuc Automation Series 90(SNP-X)
- Keyence KV (Ethernet)
- LS Industrial Systems MASTER-K
- VIGOR VB/VH
- YOKOGAWA FA-M3

- JTEKT TOYOPUC
- FUJI FREX-PC(CPU)
- FUJI FREX-PC(LINK)
- FUJI MICREX-F
- Toshiba PROSEC-T

Bugs Fixed

The following problems have been fixed:

- Timer and counter settings could not be read correctly from IDEC FA3S.
- Communication failed when the MICRO/I resetted while communicating with the CPU port of a KEYENCE KV-1000 Series PLC.
- The following issues would occur when a different communication speed was set for COM1 and COM2.

  - SIEMENS S7-MPI Host I/F Driver： COM2 could not communicate at 187500 bps.

  - SIEMENS S7-200(PPI) Host I/F Driver： COM2 could not communicate.

  - Keyence KV700/1000 Host I/F Driver： The communication speed set on COM2 would not reflect correctly when communicating with the CPU port of a KEYENCE KV-1000 Series PLC.

  - DM Link(1:1) Host I/F Driver： COM2 could not perform event transmission.

  - MELSEC-Q(CPU) Host I/F Driver： The communication speed set on COM2 would not reflect correctly.

<Application Software>

Improvements

The following improvements have been added:

- New features / improvements are added from the Runtime System Software upgrade.
- Pictures for the following parts have been added to the Part List and the part library.

  - Numerical Input, Numerical Display, Character Input, Message Display, Message Switching Display, Calendar, Meter
- The option to show or hide script errors.
- It is now possible to set scripts to run at set intervals (Cyclic Script) without affecting screen scan time (on-screen part processing). This is an effective function when using expansion units.

Bugs Fixed

The following problems have been fixed:

- If "DPI setting" was set to anything other than "Normal size" under "Display Properties" in Windows, then WindOI-NV2 would crash after a new project was created or opened.
- Unusable options would display for the “Serial Interface” of the host communication protocol depending on the host I/F driver.
- When opening a project created in an old version and converting data to the new version, all host device settings used in the project would reset if the new project name contained two or more spaces or a "." (period).

- If a script was set for a multi-button or a multi-command and the host device set in the script would not set for any other parts on the same screen, then the device value could not be read correctly by the MICRO/I.
- When setting a data log, a message saying that the data storage area was insufficient would be displayed even if there actually was sufficient free space.

<Downloader>

Improvement

The following improvement has been added:

- The HG3G series is now supported.

<Pass-Through Tool>

Improvement

The following improvement has been added:

- Now supports pass-through between the USB port of HG3G and a MELSEC FX Series PLC.

<Manual>

Communication Manual

Removed discontinued IDEC PLCs which are FA-3S, FA-2J, MICRO3 and MICRO3C.

WindO/I-NV2 Ver.4.24

<Runtime System Software>

Bugs Fixed

The following problems have been fixed:

- Modified the touch panel driver to fix that the HG1F touch panels didn’t always respond.
- Fixed that the settings of MAC Address and LCD size were reset on HG3G if the power was turned off right after the power was applied or the screen was changed to System menu.

WindO/I-NV2 Ver.4.23

<Runtime System Software>

Bugs Fixed

The following problem has been fixed:

- HG3G might not be powered up. The possibility of this problem depends on each individual unit.

<Host I/F Driver>

Improvement

The following improvement has been added:

- Improve DM Link(1:1) or DM Link(1:N) host I/F driver to reduce the influence of scan speed from the driver when large amount of communication happens.

<Application Software>

Bugs Fixed

The following problems have been fixed:

- You change the O/I type or the Host I/F driver of the project which contains the scripts written by using tags. When you download this project without editing the scripts, the scripts do not work properly.
- When you use the Monitor function on Windows 7 (32-bit/64-bit), WindO/I-NV2 crashes under the following conditions.

  1) In the Properties dialog box of the Word Button, Key Button, Selector Switch, Pilot Lamp, Character Input or Picture Display, "While satisfying the condition" is selected as Trigger Type on the Trigger Condition tab and tags are used in the Condition.

  2) In the Object List window, there is the part object which "While satisfying the condition" is selected as Trigger Type on the Trigger Condition tab next to the above part object 1).
- If you download an unusual project to the HG2G or the HG3G, the commnucations problem arises between the WindO/I-NV2 and the HGs.
- After you setup the Pilot Lamp on the editing screen, the Recover Background check box is always masked when you reopen the Properties dialog box of it.

WindO/I-NV2 Ver.4.22

<Application Software>

Bugs Fixed

The following problems have been fixed:

- With Ver.4.21, unknown error occurrs and WindO/I-NV2 freezes when trying to convert from the HG*F/HG2S project data to HG3G's.
- When the O/I type is "HG3G" and the “With Unit” checkbox of Numerical Input or Numerical Display is selected, "1" is always set to the Magnification settings.
- If the “Fixed Period” is selected as the Switching Method of the Picture Display and the Interval is set to the specific value, HG3G keeps resetting itself when the screen contains this Picture Display is displayed.

WindO/I-NV2 Ver.4.21

<Application Software>

Bugs Fixed

The following problems have been fixed:

- After uploading a project which included 24-bit bitmap from HG3G, the bitmap files were corrupted.
- The magnification settings of Numerical Display and Calendar did not change if the O/I type was "HG3G" and the font type was "Standard".
- The display value on Numerical Input was garbled if the O/I type was "HG3G" and the font size was "16x16".

WindO/I-NV2 Ver.4.20

<Runtime System Software>

Improvements

The following improvements have been added:

- The HG3G series is now supported.
- The following functions have been added to HG3G series.
  - Ability to play sound files.
  - Ability to display bitmap and JPEG files.
  - Ability to display scalable fonts.
  - Internal devices for digital input/output (LEX, LEY, WLEX, and WLEY).
  - Ability to change transparency of popup screens.
  - The File Copy function.
  - The Project Transfer function.
  - The PLC Program Transfer function.
  - Ability to support external memory devices (USB flash drives and SD Memory Cards)
  - AutoRun function for USB flash drives.
  - A function that allows pictures displayed in the Picture Display to be switched at regular intervals.
  - Ability to connect USB barcode readers.
  - Ability to set the names of files stored in SD Memory Card when using the Alarm Log, Data Log, Operation Log, and Recipe functions.
  - An automatic dimmer function.
  - The HG Special Internal Register (LSD31), capable of saving screen numbers.
- The HG2G Series now supports:
  - The HG Special Internal Register (LSD31), capable of saving screen numbers.

<Host I/F Driver>

Improvement

The following improvement has been added:

- The Modbus ASCII Communication Driver has been added.

<Application Software>

Improvements

The following improvements have been added:

- Items concerning models, functions, and settings in conjunction with the runtime system software for HG3G series improvements.
- Logical AND (&&) and Logical OR (||) as logical operators for part trigger conditions.
- The picture data for HG3G.
- Tag Editor now supports Allen-Bradley device addresses.

<Manuals>

Communication Manual

The following connection diagrams have been revised:

- Allen-Bradley: Connection Diagram 4(HG2G/3G Terminal)
- YASKAWA: Connection Diagram 3(All models)
- DM Link Communication: Connection Diagram 3.1.1(HG2G/3G Terminal, HG2F/3F/4F)

WindO/I-NV2 Ver.4.14

<Application Software>

Bugs Fixed

The following problems have been fixed:

- The program would sometimes crash when the user edited a new project or an existing project saved in the folder set as the default path and then attempted to save the project under a different name in the same folder.
- When "Data Type" is set as "float32" for a Numerical Inputnumerical display or numerical input partNumerical Display, the "Minimum" and "Maximum" values for the Data Over range would revert to "0" even if they were set to values other than "0".

WindO/I-NV2 Ver.4.12

<Runtime System Software>

Bugs Fixed

The following problem has been fixed:

- Watch Dog function does not work in HG2G/HG1F/HG2F/HG2S/HG3F/HG4F series after the MICRO/I recovers from Host Communication Error

<Host I/F Driver>

Improvement

The following improvement has been added:

- The Ethernet Communication Driver for Omron PLCs has been added in HG2G/HG3F/HG4F series.

<Application Software>

Bugs Fixed

The following problem has been fixed:

- The Forbid Web Server function checkbox on Project Settings dialog box > Communication Interface tab is always disabled (not selectable) when O/I Type is HG3F or HG4F series.

<Manual>

Communication Manual

The Expansion Communication Module, RS485 (part number FC5A-SIF4) has been added in the Communication Manual.

Pass-Through Tool Manual

Capter.4 Operations: [Note] has been updated.

WindO/I-NV2 Ver.4.11

<Runtime System Software>

1. Improvement

The maximum number of screen capture can be set by entering a value in the HG Special Register (LSD65). This is only applicable to HG3F/HG4F Series.

<Host I/F Driver>

Improvements

- HG1F/HG2F/HG2G/HG2S/HG3F/HG4F support VIGOR VB/VH Series PLC.
- The stability and reliability of the communication are improved in SIEMENS S7 MPI driver.

<Application Software>

Improvements

- “Replace for Device Address” is supported when Connection Type is “1:N Communication”.
- Preference settings of Tag Editor are moved from WindO/I-NV2 Options dialog box to Context menu of Tag Editor.

<Manual>

Instruction Manual

Add notice about the write number of times in Flash Memory by using HG Special Relay (LSM10).

WindO/I-NV2 Ver.4.10

<Runtime System Software>

1. Improvements

- HG2G DC12V model is now supported.
- HG2G Pass-through function via Ethernet is now supported.
- The touch panel determination handling has been improved to avoid the unexpected behavior which caused by pressing two points at the same time. When pressing two points at the same time, the second one will not be accepted.

2. Bugs Fixed

- O/I Link Communication do not work when SERIAL I/F 1 is set as O/I Link Slave, and SIEMENS ‘S7 MPI’ or ‘S7-200(PPI)’ is selected as Host I/F Driver in HG2G series.

<Host I/F Driver>

1. Improvement

- The communication driver has been added for Toshiba EX100 to HG1F, HG2F, HG2G, HG2S, HG3F and HG4F series.

2. Bugs Fixed

- The Event Output might not work if DM Link (1:1) or DM Link (1:N) with HG2G Series is selected.

<Application Software>

1. Improvements

- Able to open the Tag Editor from WindO/I-NV2 when launched from WindCFG.
- Able to change the display order and hide the Tag Name column to Options dialog box of WindO/I-NV2.
- The customize feature of Quick Access Toolbar has been improved.
- You can open the Tag Editor from Device Address Settings dialog box and check the Device Address usage.
- The “Replace” Device Address feature is supported and it is found at the Editing group on the Home tab.
- The icon displayed on the Editing Window tab has been modified to conform to the icon for Base Screen and Popup Screen displayed on Ribbon Control and Project Window.
- The operation of a zoom slider on the Status Bar has been improved.
- The short cut menu of Tag Editor is added on the Project Window.
- The following icons are modified on the Project Window: Text Manager, Picture

Manager and Script Manager.
- Editing the Focus Order for Numerical Input and Character Input without changing the Screen Properties is now available.

2. Bugs Fixed

The following problems have been fixed:

- After changing the Host I/F Driver, the Error Check has failed to check for device addresses used in the screen data.
- The CSV file can not be imported with Tex Manager if it includes the string with over 500 bytes in size.
- After opening the project and Auto Hide function is enabled, the Project Window, Screen List, Object List, Part List and Toolbox are displayed.
- Even though the project is saved, the information on the Screen List window is not updated.
- After starting drawing by double-clicking the drawing object on the toolbox, you can not keep drawing if you delete object with Delete key.
- Multiple users can easily edit one project at the same time.
- The items you select for the Workspace (under Setup > Object List tab) are showing differently on the Object List window.
- The project file name is kept in the Recent Project list even if you never saved it.
- If you change the font setting for multiple buttons by using the common properties dialog box, it will not apply properly.
- The display text on the imported screens are not correct even if you have changed the Text ID numbers when you import the screens which use the same ID numbers in the editing project.

<Pass-through Tool>

Ethernet Pass-Through feature

1. Improvement

Pass-Through via Ethernet between the MICRO/I and the PLC Programming Software is now available.

<Manual>

Instruction Manual

Chapter 26 Pass-Through Function: Updated the contents of HG2G series supporting Ethernet Pass-Through.

WindO/I-NV2 Ver.4.01

<Runtime System Software>

1. Project Data size

Incresed the downloadable project data size for HG1F and HG2F to the same size as Ver.2.3 of runtime (WindO/I-NV2 Ver.3.3).

<Application Software>

1. Change O/I Type

Fixed that WindO/I-NV2 showed the error message and froze when you tried to change the O/I type after exporting the project from WindCFG.

2. Open Project

Fixed that WindO/I-NV2 crashed if you tried to open the project made with the earlier version and clicked Cancel button on the Save As dialog box after converting it.

3. Line

Fixed that the setting value did not affect to the display image on the editing window correctly if you changed the value by clicking the up-arrow or down-arrow button of the coordinates or the size spin box on Format tab.

4. Text

Fixed that the display image in the editing window differed from the MICRO/I when ‘Shadow’ was selected as Style in the Properties dialog box.

5. Parts List

Fixed that Parts List was not available when the O/I type was HG4F.

6. Screen List and Parts List

Fixed that nothing was shown in the list after reopening your project after you closed it with the Screen List and the Parts List in auto-hide.

7. Color Palette

Fixed that the Color Palette would change from the 256-colors (considering 256 color was the original) to the monochrome or vice versa where monochrome is considered as the original after executing the Target Info.

8. Batch Monitor

Fixed that WindO/I-NV2 might crash when you tried to close the Batch Monitor after selecting ‘Host’ as Target.

<Downloader>

1. Read Device Data, Write Device Data

Increased “No. of Data” from 64 to 2000.

2. Upload Log Data

Fixed the problem that the uploading of Logging Data with using command line failed in HG1F/2F/2S/3F/4F.

WindO/I-NV2 Ver.4.00

[New feature/Improvement]

The following functions are introduced to WindO/I-NV2 Version 4.00.

<Host I/F Driver>

1. Modbus RTU

Supported the setting to use No.0 as Broadcast No.

2. OpenNet(FC3A), MicroSmart(FC4A/FC5A), Web Server Unit(FC3A/FC4A/FC5A)

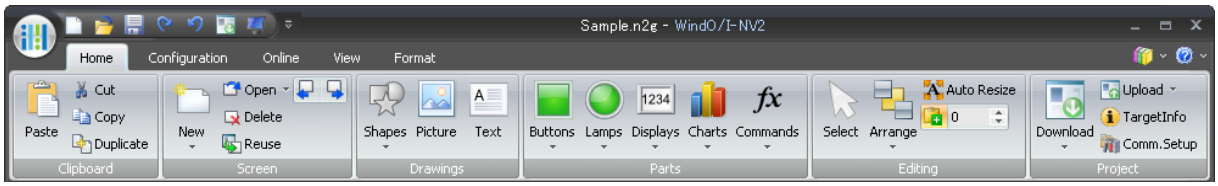
Supported AutomationOrganizer.

- United SM to M and united SD to D.
- Changed the name of TN to TC and CN to CC.
- Changed the name of Device number to Network Number.

<Application Software>

1. Changed New GUI (Graphics User Interface)

Pull-down menu and Tool bars were changed to Ribbon Control and allows you to access frequently used commands with minimum steps.



2. Advanced Interactivity for WindCFG and WindLDR

WindCFG (New System Configuration Software) provides the advanced interactivity between WindO/I-NV2 and WindLDR. Those two softwares can share the PLC device address information such as tag name and comments each other automatically.

3. Expanded Device address capabilities

- Tag name is now available.
- Added the cross reference function.
- Device Addresses are set by drag & drop operation using WindCFG and Tag Editor
- Expanded the device address format. It allows the same as WindLDR. The previous WindO/I-NV2 format is still available.

(The expanded format allows "." as the separator of bit instead of "-", and the space between Device Type and Address will not be necessary.)

<Manual>

1. Instruction Manual

Modified the Manual No. of Instruction manual to HG9Y-B1118.

[Fixed Problems]

<Runtime System Software>

1. HG2G Host I/F Driver S7-MPI

Fixed that in the software Ver.3.41 or Ver.3.42, "Host Communication Error" would be shown if using S7-MPI driver.

2. HG2G Screen

Fixed the MICRO/I reset problem. The MICRO/I reset if the following conditions were met.

1) A non-existing base screen is set as an overlay screen for a base screen.
2) Selects the "Display Order of Overlapping Screen" to a non-existing overlay screen number.
3) The program is downloaded to the MICRO/I
4) When the screen is switched to a base screen that is set as a non-existing overlay screen in Monitor Mode, the MICRO/I is reset.

<Host I/F Driver>

1. HG2G OMRON SYSMAC-C

Fixed the following bugs.

- Bits are not kept in a byte when the bit write is executed.
- The value of one device read from PLC first is not updated.

2. HG1F/2F/2S/3F/4F OpenNet(FC3A), MicroSmart(FC4A/FC5A), Web Server Unit(FC3A/FC4A/FC5A)

"Host Communication Error" would be shown if the project data contained the following condition when using HG1F/2F/2S/3F/4F.

- Reading more than 20 consecutive addresses and the device would be the Timer Contact(T) or Counter Contact(C)

<Application Software>

1. Numerical Input, Character Input

When Keypad Type is Current Screen and Always Entry Mode check box is ON, Reverse

check box is masked.

<Manual>

1. Communication Manual

- Modified the connection diagram 2 and 4 of HG2G in Mitsubishi.
- Modified the connector type of connection diagram 1 in Allen-Bradley.
- Modified the connector type of connection diagram 7 in Allen-Bradley.